

## CLAIMS

1. A resistor paste comprising a glass material substantially not including lead and including NiO, a  
5 conductive material substantially not including lead, and an organic vehicle.

2. A resistor paste comprising a glass material substantially not including lead and including 0.1 to 10  
10 mol% of NiO, a conductive material substantially not including lead, and an organic vehicle.

3. The resistor paste as set forth in claim 1 or 2, wherein a content of said glass material is 65 to 93  
15 volume% and a content of said conductive material is 7 to 35 volume%.

4. The resistor paste as set forth in claim 1 or 2, wherein a content of said glass material is 49 to 88  
20 wt% and a content of said conductive material is 10 to 51 wt%.

5. The resistor paste as set forth in any one of claims 1 to 4, wherein said glass material includes  
25 an A group including at least one kind selected

from CaO, SrO, BaO and MgO,

a B group including B<sub>2</sub>O<sub>3</sub>,

a C group including SiO<sub>2</sub>,

a D group including at least one of ZrO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub>,

5 and

an E group including NiO.

6. The resistor paste as set forth in claim 5,  
wherein contents of the respective groups are

10 A group: 20 to 40 mol%,

B group: 18 to 45 mol%,

C group: 21 to 40 mol%,

D group: 10 mol% or smaller (note that 0 mol% is  
excluded), and

15 E group: 0.1 to 10 mol%.

7. The resistor paste as set forth in any one of  
claims 1 to 4, wherein said glass material includes

an A group including at least one kind selected

20 from CaO, SrO, BaO and MgO,

a B group including B<sub>2</sub>O<sub>3</sub>,

a C group including SiO<sub>2</sub>, and

an E group including NiO.

25 8. The resistor paste as set forth in claim 7,

wherein contents of the respective groups are

A group: 20 to 40 mol%,

B group: 18 to 45 mol%,

C group: 21 to 40 mol%, and

5 E group: 0.1 to 10 mol%.

9. The resistor paste as set forth in any one of claims 1 to 8, including CuO as an additive, wherein a content of the CuO is 0.1 to 2 volume%.

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10. The resistor paste as set forth in any one of claims 1 to 8, including CuO as an additive, wherein a content of the CuO is 0.1 to 6 wt%.

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11. The resistor paste as set forth in any one of claims 1 to 10, including an oxide having a perovskite type crystal structure as an additive, wherein a content of the oxide is 0.1 to 12 volume%.

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12. The resistor paste as set forth in any one of claims 1 to 10, including an oxide having a perovskite type crystal structure as an additive, wherein a content of the oxide is 0.1 to 20 wt%.

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13. The resistor paste as set forth in claim 11

or 12, wherein the oxide having a perovskite type crystal structure is  $\text{CaTiO}_3$ .

14. A resistor including a glass material  
5 substantially not including lead and including NiO and a  
conductive material substantially not including lead.

15. An electronic device comprising a resistor,  
wherein said resistor includes a glass material  
10 substantially not including lead and including NiO and a  
conductive material substantially not including lead.